

What is claimed is:

1. A vehicle door controlling apparatus, comprising:

a connection locking means provided between a first door and a second door for locking the first door and the second door by connecting both of them to each other ;

a door-locking means for restraining opening and closing of the second door on the vehicle body to be locked ;

a release means for unlocking the connection locking means or the door-locking means; and

a controlling means for controlling the connection locking means and the release means,

the vehicle door controlling apparatus further comprising:

an operating means which requests the opening of the second door; and

a first lock state detecting means for detecting the state of the connection member ; wherein

when a request for opening the second door using the operating means is detected, the controlling means operates the release means, releases the lock which has been locked by the connection member and releases the lock of the door-locking means, and electrically drives the second door based on a signal from the first lock state detecting means.

2. The vehicle door controlling apparatus according to Claim 1, further comprising a second lock state detecting means for detecting restraint of the first door on the vehicle body ; wherein

the second lock state detecting means includes a first switch in which, when the second door moves from a whole closed state in an opened direction by a predetermined distance, engagement with one of the doors caused by the connection member is released and the switching state of the first switch is changed, and when switching of the first switch is detected, the controlling means operates the release means, releases a lock state of the connection member and starts electrical driving of the second door.

3. The vehicle door controlling apparatus according to Claim 2, further comprising a second switch whose state is switched to the opened direction rather than the first switch,

wherein, when switching of the second switch is detected, the controlling means stops the operation of the release means.

4. The vehicle door controlling apparatus according to Claim 1, wherein the first door is a swinging door which is opened or closed in the widthwise direction of the vehicle and the second door is a sliding door which is opened or closed in the forward and backward directions of the vehicle.